

Supplement 1 International Versions of the Background Questionnaires – Population 3

Overview

This supplement contains the international versions of the Population 3 background questionnaires and the calculator use survey students completed at the end of the test booklet:

Section 1:	Student Background Questionnaire (SQ3)
Section 2:	School Background Questionnaire (SCQ3)
Section 3:	Calculator Use Survey

Tables S1.1 and S1.2 list all of the international background variables corresponding to each of the student and school background questionnaire items. Table S1.1 also lists the variables from the calculator survey.

The international versions of the questionnaires were designed to provide an opportunity for individual countries to make modifications to some questions or response options in order include the appropriate wording or options most consistent with their own national systems. In the international versions of the questionnaires, such questions contain instructions to NRCs to substitute the appropriate wording for their country and/or to modify or delete any inappropriate questions or options. These instructions were indicated in two ways in the questionnaires:

- 1) NRC NOTE:
- 2) <International Option> (indicating that the NRC was to substitute, if necessary, an appropriate national option that would retain the same basic interpretation as the international version)

Documentation of any national adaptations of the student and school background questionnaire items is included in Supplement 2 to provide the user with information required to evaluate the availability of internationally-comparable data for use in secondary analyses involving the TIMSS contextual variables.

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SQ3-1/1 CSBGBIRD

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SQ3-12/4 SQ3-13A SQ3-13A SQ3-13A SQ3-13B SQ3-13B SQ3-13B SQ3-13B SQ3-13C SQ3-13C	1 CSB 2 CSB 3 CSB 4 CSB 1 CSB 3 CSB 3 CSB 4 CSB 3 CSB 4 CSB 1 CSB 1 CSB 1 CSB	GAFTR SSIP1 SSIP1 SSIP1 SSIP1 MFIP2 MMIP2 MSIP2 GSIP3 GGIP3	Does yo Does yo Do your Do your Does yo Does yo Do your Do you	o your friends think your father think it is bour mother think it is friends think it is in think it is importan your father think it is friends think it is in think it is importan your father think it is your mother think it is	important for you is important for you is important for you t to do well in scie important for you is important for you t to do well in mai important for you	u to do well in bu to do well in to do well in se ence at school u to do well in bu to do well in the well in m thematics at s u to do well in	science at science at s cience at s mathemat mathematic chool? <language< th=""><th>school? at school? school? ics at school? atics at school? is at school? e of test> at school?</th><td>Dol?</td><td></td></language<>	school? at school? school? ics at school? atics at school? is at school? e of test> at school?	Dol?	
SQ3-13C SQ3-13C SQ3-13D SQ3-13D SQ3-13D SQ3-13D SQ3-14A	4 CSB 1 CSB 2 CSB 3 CSB 4 CSB	GRIP3 GSIP3 GGIP4 GGRIP4 GGRIP4 GGSIP4 GGSIP4 DGFEDU D	Do your Do you Does yo Does yo Do your Do you	friends think it is i think it is importan our father think it is our mother think it i friends think it is i think it is importan nk it is important to	mportant for you to t to do well in <lar important for you is important for you mportant for you t to be good at sp</lar 	to do well in < nguage of test i to be good a ou to be good to be good at s orts?	language t> at schoo t sports? at sports?	of test> at schoo		

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SQ3-31E	CSBMDO05	In your mathematics lossens, how after are you acked to solve equations?
SQ3-31E	CSBMD005	In your mathematics lessons, how often are you asked to solve equations?
SQ3-311	CSBMD007	In your mathematics lessons, how often are you asked to practice computational skills?
SQ3-31H	CSBMD008	In your mathematics lessons, how often are you asked to apply models to data? In your mathematics lessons, how often are you asked to memorize rules and procedures?
SQ3-311	CSBMD000	
SQ3-311	CSBMD009	In your mathematics lessons, how often are you asked to apply mathematics to everyday problems?
SQ3-31J SQ3-31K	CSBMD010 CSBMD011	In your mathematics lessons, how often are you asked to copy notes from the board?
		In your mathematics lessons, how often are you asked to use computers to solve exercises or problems? In your mathematics lessons, how often are you asked to watch the teacher demonstrate how to do
SQ3-31L	CSBMD012	mathematics problems or procedures?
SQ3-31M	CSBMDO13	In your mathematics lessons, how often are you asked to begin your homework before the class ends?
SQ3-32	CSBMTXBK	Do you use a textbook in your mathematics class?
SQ3-32A	CSBMTXN1	Do you use <country specific="" text=""> in your mathematics class?</country>
SQ3-32B	CSBMTXN2	Do you use <country specific="" text=""> in your mathematics class?</country>
SQ3-32C	CSBMTXN3	Do you use <country specific="" text=""> in your mathematics class?</country>
SQ3-32D	CSBMTXN4	Do you use <country specific="" text=""> in your mathematics class?</country>
SQ3-32E	CSBMTXN5	Do you use <country specific="" text=""> in your mathematics class?</country>
SQ3-33	CSBMHMWK	How often is mathematics homework assigned to you?
SQ3-34A	CSBSCOU1	Are you currently taking physics?
SQ3-34B	CSBSCOU2	Are you currently taking chemistry?
SQ3-34C	CSBSCOU3	Are you currently taking biology?
SQ3-34D	CSBSCOU4	Are you currently taking earth science?
SQ3-34E	CSBSCOU5	Are you currently taking any other science course?
SQ3-35A	CSBSQUES	For which science subject are you completing questions 36 and 37?
SQ3-35B	CSBSCLAS	How many classes do you usually have each week for that course, including lab. work?
SQ3-35C	CSBSTIME	How many minutes are there in each class for this course?
SQ3-36A	CSBSDO01	In your physics (or science) lessons, how often are you asked to explain the reasoning behind an idea?
SQ3-36B	CSBSDO02	In your physics lessons, how often are you asked to represent and analyze relationships using tables, char or graphs?
SQ3-36C	CSBSDO03	In your physics lessons, how often are you asked to work on problems for which there is no obvious methor of solution?
SQ3-36D	CSBSDO04	In your physics lessons, how often are you asked to write explanations about what was observed and why happened?
SQ3-36E	CSBSDO05	In your physics lessons, how often are you asked to put events/objects in order and give a reason for the organization?
SQ3-36F	CSBSDO06	In your physics lessons, how often are you asked to apply models to data?
SQ3-36G	CSBSDO07	In your physics lessons, how often are you asked to apply physics to everyday problems?
SQ3-36H	CSBSDO08	In your physics lessons, how often are you asked to conduct laboratory experiments?
SQ3-36I	CSBSDO09	In your physics lessons, how often are you asked to collect and organize data in the classroom or laborate
SQ3-36J	CSBSDO10	In your physics lessons, how often are you asked to go on a field trip to collect data?
SQ3-36K	CSBSDO11	In your physics lessons, how often are you asked to copy notes from the board?
SQ3-36L	CSBSDO12	In your physics lessons, how often are you asked to use computers to solve exercises or problems?
SQ3-36M	CSBSDO13	In your physics lessons, how often are you asked to watch the teacher demonstrate scientific concepts?
SQ3-36N	CSBSDO14	In your physics lessons, how often are you asked to begin your homework before the class ends?
SQ3-37	CSBSTXBK	Do you use a textbook in your physics (or science) class?
SQ3-37A	CSBSTXN1	Do you use <country specific="" text=""> in your physics (or science) class?</country>

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SCQ	3-1	CCB	GCOMM	In what ty	ype of community i	is your school lo	cated?			
SCQ	3-2A	CCB	GGRPK	ls Pre-kin	ndergarten found in	n your school?				
SCQ	3-2B	CCB	GGRK	Is Kinder	garten found in you	ur school?				
SCQ	3-2C	CCB	GGR1	Is Grade	1 found in your scl	hool?				
SCQ	3-2D	CCB	GGR2	Is Grade	2 found in your scl	hool?				
SCQ	3-2E	CCB	GGR3	Is Grade	3 found in your scl	hool?				
SCQ	3-2F	CCB	GGR4	Is Grade	4 found in your scl	hool?				
SCQ	3-2G	CCB	GGR5	Is Grade	5 found in your scl	hool?				
SCQ	3-2H	CCB	GGR6	Is Grade	6 found in your scl	hool?				
SCQ	3-21	CCB	GGR7	Is Grade	7 found in your scl	hool?				
SCQ	3-2J	CCB	GGR8	Is Grade	8 found in your scl	hool?				
SCQ	3-2K	CCB	GGR9	Is Grade	9 found in your scl	hool?				
SCQ	3-2L	CCB	GGR10	Is Grade	10 found in your se	chool?				
SCQ	3-2M	CCB	GGR11	Is Grade	11 found in your se	chool?				
SCQ	3-2N	CCB	GGR12	Is Grade	12 found in your se	chool?				
SCQ	3-20	CCB	GGR13	Is Grade	13 found in your se	chool?				
SCQ	3-3A	CCB	GFTE1	How man	ny principals are or	n the staff of you	ır school? (FT	E)		
SCQ	3-3B	CCB	GFTE2	How man	ny assistant princip	als are on the s	taff of your sc	hool? (FTE)		
SCQ	3-3C	CCB	GFTE3	How man	ny department head	ds are on the st	aff of your sch	iool? (FTE)		
SCQ	3-3D	CCB	GFTE4	How man	ny classroom teach	ners are on the s	staff of your so	chool? (FTE)	
SCQ	3-3E	CCB	GFTE5	How man	ny teacher aides ar	re on the staff of	your school?	(FTE)		
SCQ	3-4A	CCB	GFTTE	How man	ny individual full-tim	ne teachers are	there in your	school?		
SCQ	3-4B	CCB	GPTTE	How man	ny individual part-tii	me teachers are	e there in your	school?		
SCQ	3-5	CCB	GTE5Y	What per	rcentage of the tea	chers have bee	n at your scho	ol for 5 or m	nore years?	
SCQ	3-6	CCBI	MNTEA	How man	ny of the teachers i	in your school te	each the most	advanced n	nathematics?	
SCQ	3-7A	CCBI	MPTE1	What per mathema		st advanced ma	thematics tea	chers are as	ssigned all of	their teaching load in
SCQ	3-7B	CCBI	MPTE2	teaching	load in mathematic	cs?			0	ast half but not all of their
SCQ	3-7C	CCBI	MPTE3		rcentage of the most the most the most the matter at the matter of the most the matter of the most the	st advanced ma	thematics tea	chers are as	ssigned less	than half of their teaching
SCQ	3-8	CCBI	PNTEA							

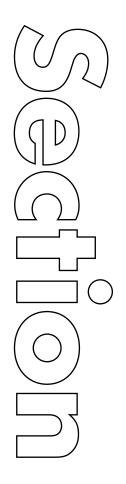
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SCQ	3-12G	CCBGST07	ls you	r school's	instruction	al capacity affecte	ed by inadequ	uacy of inst	ructional space	e?		1	
SCQ	3-12H	CCBGST08	ls you	r school's	instructiona	al capacity affecte	ed by inadequ	uacy of spe	cial equipmer	nt for handicap	ped students?		
SCQ	3-121	CCBMST09	ls you	r school's	instructiona	al capacity affecte	ed by inadequ	uacy of con	nputers for ma	athematics ins	truction?		
SCQ)3-12J	CCBMST10	ls you instruc		instruction	al capacity affecte	ed by inadeq	uacy of con	nputer softwar	e for mathem	atics		
SCQ	3-12K	CCBMST11	ls you	r school's	instruction	al capacity affected	hool's instruc	tional capa	city affected t	y in a dequality	rarvrs for D Is 4	3levaguitore for chool's instructio	mathematics nal capacity af
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SCQ3-17KA	ССВС	GUO11	How	often do	es admin	istration or st	taff have	to deal with	physical inj	ury to stu	dents	caus	ed by other stud
SCQ3-17KE	CCBC	GUS11	In you	ır schoc	ol, how se	vere a proble	em is phy	sical injury c	f other stud	lents?			
SCQ3-17LA	CCBC	GUO12	How o	often do	es admin	istration or st	taff have	to deal with	intimidation	of teach	ers or	staff	by students?
SCQ3-17LE	CCBC	GUS12	In you	ır schoc	ol, how se	vere a proble	em is intin	nidation or v	erbal abuse	e of teach	ners o	r staff	ŧ
SCQ3-17M	ССВС	GUO13	How o	often do	es schoo	I administrati	on or staf	f have to de	al with phys	sical injur	y of s	taff ca	aused by studer
SCQ3-17M	CCBC	GUS13	In you	ır schoc	ol, how se	vere a proble	em is phy	sical injury t	o teachers o	or staff?			
SCQ3-17N	ССВС	GUO14	How o	often do	es schoo	I administrati	on or staf	f have to de	al with toba	cco use/	posse	ssion	?
SCQ3-17NE	CCBC	GUS14	In you	ır schoc	ol, how se	vere a proble	em is toba	acco use/pos	ssession?				
SCQ3-170/	CCBC	GUO15	How o	often do	es schoo	l administrati	on or staf	f have to de	al with alco	hol use/p	osses	ssion	?
SCQ3-170	CCBC	GUS15	In you	ur schoo	ol, how se	vere a proble	em is alco	hol use/pos	session?				
SCQ3-17PA	CCBC	GUO16	How o	often do	es schoo	I administrati	on or staf	f have to de	al with illeg	al drug u	se/po	ssess	ion?
SCQ3-17PE	CCBC	GUS16	In you	ır schoc	ol, how se	vere a proble	em is illeg	al drug use/	possession	?			
SCQ3-17Q/	CCBC	GUO17	How o	often do	es schoo	l administrati	on or staf	f have to de	al with wea	pon use/	posse	ession	?
SCQ3-17Q	CCBC	GUS17	In you	ır schoc	ol, how se	vere a proble	em is wea	pon use/po	ssession?				
SCQ3-17RA	CCBC	GUO18	How o	often do	es schoo	l administrati	on or staf	f have to de	al with inap	propriate	sexu	al bel	navior?
SCQ3-17RE	CCBC	GUS18	In you	ır schoc	ol, how se	vere a proble	em is inap	propriate se	xual behav	ior?			
SCQ3-18A	CCBC	GUFC1	How i	mportar	nt is acad	emic perform	nance in c	leciding whi	ch track <ta< td=""><td>rget grad</td><td>le> st</td><td>udent</td><td>s follow?</td></ta<>	rget grad	le> st	udent	s follow?
SCQ3-18B	CCBC	GUFC2	How i	mportar	nt is perfo	rmance on a	standard	lized test in	deciding wh	ich track	<targ< td=""><td>jet gra</td><td>ade> students fo</td></targ<>	jet gra	ade> students fo
SCQ3-18C	CCBC	GUFC3	How i follow		nt is perfo	ormance on a	n entranc	e examinati	on in decidi	ng which	track	<tarę< td=""><td>get grade> stude</td></tarę<>	get grade> stude
SCQ3-18D	ССВС	GUFC4	How i	mportar	nt is perfo	rmance on a	n oral exa	amination in	deciding w	hich track	< <tar< td=""><td>get gr</td><td>ade> students f</td></tar<>	get gr	ade> students f
SCQ3-18E	CCBC	GUFC5	How i	mportar	nt are tea	cher recomm	endation	s in deciding	which trac	k <target< td=""><td>grade</td><td>e> stu</td><td>idents follow?</td></target<>	grade	e> stu	idents follow?
SCQ3-18F	CCBC	GUFC6	How i	mportar	nt are par	ental wishes	in decidir	ng which tra	ck <target g<="" td=""><td>rade> st</td><td>udent</td><td>s follo</td><td>w?</td></target>	rade> st	udent	s follo	w?
SCQ3-18G		GUFC7	How i	mportar	nt are the	student's ow	n wishes	in deciding	which track	<target (<="" td=""><td>grade</td><td>> stud</td><td>dents follow?</td></target>	grade	> stud	dents follow?
SCQ3-18H		GUFC8	How i	mportar	nt are cur	ricular require	ements in	deciding w	nich track <	target gra	ade>	stude	nts follow?
SCQ3-19A1		GBENR	What	is the to	otal schoo	ol enrollment	of boys?						
SCQ3-19A2		GGENR				ol enrollment	•						
SCQ3-19B		GABST				y, what perce	-					-	
SCQ3-19C	CCBC	GENDY			•		•	•	•			•	ar in your schoo
SCQ3-19D	CCBC	GTNSF		t what p ol year?	ercentag	e of the stude	ents in yo	ur school tra	inster into y	our scho	ol afte	er the	beginning of the
SCQ3-20A	CCBC	GCOM1	ls trac	ck #1 av	ailable in	your school	?						
SCQ3-20B	CCBC	GCOM2	ls trac	ck #2 av	ailable in	your school	?						
SCQ3-20C	CCBC	GCOM3	ls trac	ck #3 av	ailable in	your school	?						
SCQ3-20D	CCBC	GCOM4	ls trac	ck #4 av	ailable in	your school	?						
SCQ3-20E	CCBC	GCOM5	ls trac	ck #5 av	ailable in	your school	?						
SCQ3-20F	ССВС	GCOM6	Is trac	ck #6 av	ailable in	your school	?						
SCQ3-21	CCBC	GPRGM	Is the	gradua	tion requi	rement the s	ame for <	target grade	> students	in every	track	?	
SCQ3-21A#	1 CCB0	GPG1A	In trac	ck #1, a	re studen	ts required to	o pass a c	comprehens	ive examina	ation in o	rder to	o grad	luate?
SCQ3-21A#	2 CCBC	GPG2A	In trac	ck #2 ar	e student	s required to	pass a c	omprehensi	ve examina	tion in or	der to	grad	uate?
SCQ3-21A#	3 ССВС	GPG3A	In trac	ck #3 ar	e student	s required to	pass a c	omprehensi	ve examina	tion in or	der to	grad	uate?
SCQ3-21A#	4 CCB0	GPG4A	In trac	ck #4 ar	e student	s required to	pass a c	omprehensi	ve examina	tion in or	der to	grad	uate?
SCQ3-21A#	5 CCBC	GPG5A	In trac	ck #5 ar	e student	s required to	pass a c	omprehensi	ve examina	tion in or	der to	grad	uate?
SCQ3-21A#	6 CCB0	GPG6A	In trac	ck #6 ar	e student	s required to	pass a c	omprehensi	ve examina	tion in or	der to	grad	uate?

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SCQ3-21B#1	CCBGPG1B	In track #1, are students required to pass an examination in mathematics in order to graduate?
SCQ3-21B#2	CCBGPG2B	In track #2 are students required to pass an examination in mathematics in order to graduate?
SCQ3-21B#3	CCBGPG3B	In track #3 are students required to pass an examination in mathematics in order to graduate?
SCQ3-21B#4	CCBGPG4B	In track #4 are students required to pass an examination in mathematics in order to graduate?
SCQ3-21B#5	CCBGPG5B	In track #5 are students required to pass an examination in mathematics in order to graduate?
SCQ3-21B#6	CCBGPG6B	In track #6 are students required to pass an examination in mathematics in order to graduate?
SCQ3-21C#1	CCBGPG1C	In track #1, are students required to pass an examination in science in order to graduate?
SCQ3-21C#2	CCBGPG2C	In track #2 are students required to pass an examination in science in order to graduate?
SCQ3-21C#3	CCBGPG3C	In track #3 are students required to pass an examination in science in order to graduate?
SCQ3-21C#4	CCBGPG4C	In track #4 are students required to pass an examination in science in order to graduate?
SCQ3-21C#5	CCBGPG5C	In track #5 are students required to pass an examination in science in order to graduate?
SCQ3-21C#6	CCBGPG6C	In track #6 are students required to pass an examination in science in order to graduate?
SCQ3-21D#1	CCBGPG1D	In track #1 are students required to maintain a certain standard of performance (e.g. GPA) in order to graduate?
SCQ3-21D#2	CCBGPG2D	In track #2 are students required to maintain a certain standard of performance (e.g. GPA) in order to graduate?
SCQ3-21D#3	CCBGPG3D	In track #3 are students required to maintain a certain standard of performance (e.g. GPA) in order to graduate?
SCQ3-21D#4	CCBGPG4D	In track #4 are students required to maintain a certain standard of performance (e.g. GPA) in order to graduate?
SCQ3-21D#5	CCBGPG5D	In track #5 are students required to maintain a certain standard of performance (e.g. GPA) in order to graduate?
SCQ3-21D#6	CCBGPG6D	In track #6 are students required to maintain a certain standard of performance (e.g. GPA) in order to graduate?
SCQ3-21E#1	CCBGPG1E	In track #1 are students required to accumulate a certain amount of credit/coursework in order to gradua
SCQ3-21E#2	CCBGPG2E	In track #2 are students required to accumulate a certain amount of credit/coursework in order to gradua
SCQ3-21E#3	CCBGPG3E	In track #3 are students required to accumulate a certain amount of credit/coursework in order to gradua
SCQ3-21E#4	CCBGPG4E	In track #4 are students required to accumulate a certain amount of credit/coursework in order to graduate
SCQ3-21E#5	CCBGPG5E	In track #5 are students required to accumulate a certain amount of credit/coursework in order to gradua
SCQ3-21E#6	CCBGPG6E	In track #6 are students required to accumulate a certain amount of credit/coursework in order to gradua
SCQ3-21F#1	CCBGPG1F	In track #1 are students required to attend a specified number of years in order to graduate?
SCQ3-21F#2	CCBGPG2F	In track #2 are students required to attend a specified number of years in order to graduate?
SCQ3-21F#3	CCBGPG3F	In track #3 are students required to attend a specified number of years in order to graduate?
SCQ3-21F#4	CCBGPG4F	In track #4 are students required to attend a specified number of years in order to graduate?
SCQ3-21F#5	CCBGPG5F	In track #5 are students required to attend a specified number of years in order to graduate?
SCQ3-21F#6	CCBGPG6F	In track #6 are students required to attend a specified number of years in order to graduate?
SCQ3-21G#1	CCBGPG1G	In track #1 are students required to reach a certain age in order to graduate?
SCQ3-21G#2	CCBGPG2G	In track #2 are students required to reach a certain age in order to graduate?
SCQ3-21G#3	CCBGPG3G	In track #3 are students required to reach a certain age in order to graduate?
SCQ3-21G#4	CCBGPG4G	In track #4 are students required to reach a certain age in order to graduate?
SCQ3-21G#5	CCBGPG5G	In track #5 are students required to reach a certain age in order to graduate?
SCQ3-21G#6	CCBGPG6G	In track #6 are students required to reach a certain age in order to graduate?
SCQ3-21H#1	CCBGPG1H	In track #1 are students required to pass an oral exam in order to graduate?
SCQ3-21H#2	CCBGPG2H	In track #2 are students required to pass an oral exam in order to graduate?
SCQ3-21H#3	CCBGPG3H	In track #3 are students required to pass an oral exam in order to graduate?

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	CQ3-21H#5	CCBGPG5H				quired to pass an				
SC	CQ3-21H#6 CQ3-22 CQ3-22A#1	CCBGPG6H CCBGTRAK CCBGTK1A				quired to pass an e same for <target< td=""><td></td><td>-</td><td></td><td>r school?</td></target<>		-		r school?

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	L	nn n		e w	D	8	n							
	SCQ3	3-23B#4 3-23B#5 3-23B#6	ССВС	GITM4 GITM5 GITM6	How	many	minu	utes is a typ	pical instructional pical instructional pical instructional	period for trac	ck #5?			



Student Background Questionnaire (SQ3)



Identification Label
School
Class
Student

IEA Third International Mathematics and Science Study

Student Questionnaire Population 3

TIMSS Study Center Boston College Chestnut Hill, MA 02167 USA

Doc. Ref.: ICC909/NRC442 ©IEA, The Hague (Institute Address)

GENERAL DIRECTIONS

In this booklet, you will find questions about yourself. Some questions ask for facts while other questions ask for your opinion.

Read each question carefully and respond as accurately and carefully as possible. You may ask for help if you do not understand something or are not sure how to respond.

Some of the questions will be followed by a few possible choices indicated with a letter next to or below it. For these questions, circle the letter next to or below your choice as shown in Example 1.

Example 1			
	Yes	No	
1. I attend school	А	В	

The letter "A" has been circled because you attend school.

If you decide to change your response to a question, put an "X" over your first choice and then put a circle around your new choice as shown in Example 2.

Example 2

	•	strongly agree	agree	disagree	strongly disagree
2.	I like rock music.	. A	В	С	D

For other questions you will be asked to write a number or date in the space provided in your booklet. For these questions, you may use words and numbers in your answers. When you write, please be sure that your handwriting is clear.

1. On what date were you born?

Write in the day, month and year.

<____day ____ month ____year>

<NRC NOTE: USE STYLE APPROPRIATE TO YOUR COUNTRY AND GRADE LEVEL.>

2. Are you a female or a male?

Circle either A or B.

female A male B

3a. Were you born in <country> ?

Circle either A or B.

Yes A No B

3b. If you were not born in <country>, how old were you when you came to <country>?

Write in your age at the time.

I was _____ years old when I came to <country>

Circle either A or B for each line.

		Yes	No
4a.	Was your mother born in <country>?</country>	А	В
4b.	Was your father born in <country>?</country>	А	В

11. How far in school did your mother and father go?

Circle	ONE	letter	in	each	column.
Circie	UNL	iciici	uu	cucn	countin.

	Mother	Father
<finished primary="" school=""></finished>	. A	А
<some school="" secondary=""></some>	. В	В
<finished school="" secondary=""></finished>	. C	С
<some after<br="" education="" technical="" vocational="">secondary school></some>	. D	D
<some university=""></some>	. Е	E
<finished university=""></finished>	. F	F
I don't know	. G	G

12. What do each of the following people think you ought to do immediately after you finish <secondary school>?

Circle ONE letter, A, B, C, D, or E, in each column.

		Father	Mother	Teachers	Friends
a) go	to university full time	А	А	А	А
b) ge	et a full-time job	В	В	В	В
c) <e< td=""><td>enter trade school or apprenticeship>.</td><td>С</td><td>С</td><td>С</td><td>С</td></e<>	enter trade school or apprenticeship>.	С	С	С	С
d) en	ter military service	D	D	D	D
e) ot	her	Е	Е	Е	Е

13. Do each of the following people think it is important for you to...

Circle Y for "Yes", or N for "No", in every column in each line.

		Father	Mother	Friends	Yourself
a)	do well in science at school?	. Y N	Y N	ΥN	ΥN
b)	do well in mathematics at school?	. Y N	Y N	ΥN	ΥN
c)	do well in <language of="" test=""> at school?</language>	.YN	Y N	Y N	Y N
d)	be good at sports?	. Y N	ΥN	ΥN	Y N

14a. After <secondary school>, do you intend to continue your education? *Circle either A or B.*

Yes	А
No	В

If No, skip the rest of this question and go to question number 15.

If Yes, what form of further education do you intend to take?

Circle either A or B for each line.

		Yes	No
a)	<vocational a="" at="" business="" courses="" or="" school="" technical="" trade=""></vocational>	А	В
b)	<academic a="" at="" college="" community="" courses="" junior="" or=""></academic>	А	В
c)	<vocational a="" at="" college="" community="" junior="" or="" subjects="" technical=""></vocational>	А	В
d)	attend a <four-year college="" or="" university=""></four-year>	А	В
e)	other	А	В

15. During the week, how much time before or after school do you usually spend...

Circle ONE letter, A, B, C, D, or E, for each line.

	less			more
no	than 1	1-2	3-5	than 5
time	hours	hours	hours	hours

a) taking <extra lessons/cramming school> ae]h95 for B, C, D, or Eo97 Tw [9j, for each line.time <ext9lessons/cramming school>

17. How often did any of these things happen last month in school?

Circle ONE letter, A, B, C, or D, for each line.

		never	once or twice	3-4 times	5 times or more
a)	I skipped a class.	А	В	С	D
b)	Something of mine was stolen	А	В	С	D
c)	I was threatened by another student	А	В	С	D
d)	Some of my friends skipped classes	А	В	С	D
e)	Some of my friends had things stolen	А	В	С	D
f)	Some of my friends were threatened by other students.	А	В	С	D

18. What do you think about mathematics?

Circle ONE letter, A, B, C, or D, for each line.

		strongly agree	agree	disagree	strongly disagree
a)	I enjoy learning mathematics.	. A	В	С	D
b)	Mathematics is boring.	. A	В	С	D
c)	Mathematics is an easy subject.	. A	В	С	D
d)	Mathematics is important to everyone's life	. A	В	С	D
e)	I would like a job that involved using mathematics	. А	В	С	D

19. How much do you like...

	dislike a lot	dislike	like	like a lot	have not studied
a) mathematics?	A	В	С	D	Е
b) biological science?	A	В	С	D	E
c) chemistry?	A	В	С	D	E
d) earth science?	A	В	С	D	E
e) physics?	A	В	С	D	Е

Circle ONE letter, A, B, C, D, or E, for each line.

20. To do well in mathematics at school a person needs...

Circle ONE letter, A, B, C, or D, for each line.

		strongly agree	agree	disagree	strongly disagree
a)	lots of natural <talent ability=""></talent>	А	В	С	D
b)	good luck	А	В	С	D
c)	lots of hard work studying at home	А	В	С	D
d)	to memorize the textbook or notes.	А	В	С	D
b) c)	good luck lots of hard work studying at home	A A	B B	C C C C	

21. To do well in the sciences at school a person needs...

Circle ONE letter, A, B, C, or D, for each line.

		strongly agree		disagree	strongly disagree
a)	lots of natural <talent ability=""></talent>	А	В	С	D
b)	good luck	А	В	С	D
c)	lots of hard work studying at home	А	В	С	D
d)	to memorize the textbook or notes	А	В	С	D

22. How well have you usually done in mathematics and the sciences at school?

Circle ONE letter, A, B, C, or D, for each line.

		strongly agree	agree	disagree	strongly disagree
a)	I have usually done well in mathematics	A	В	С	D
b)	I have usually done well in the sciences	. A	В	С	D

23. How often do you use any of the following at school, home or any other place?

Circle ONE letter, A, B, C, or D, for each line.

		daily	weekly	monthly	rarely or never
a)	calculator	А	В	С	D
b)	desktop computer	А	В	С	D
c)	computer terminal	А	В	С	D
d)	video tapes or video disc machine	А	В	С	D
e)	electronic mail	А	В	С	D

NRC NOTE: This question may be omitted if your system has tracks but the information is known from the sampling design or

NRC Note: Countries must provide a list of the course options available to students in subject-matter areas specified in Questions 25 to 29. Courses should include those used to define the specialist groups in mathematics and physics for Population 3. Questions 25-29 may be omitted if this information is known from the sampling design, or is otherwise available.

25. What is the most advanced course that you have taken in Mathematics?

Circle ONE letter, A, B, C, or D.

<country specific=""></country>	А
<country specific=""></country>	В
<country specific=""></country>	С
<country specific=""></country>	D

26. What is the most advanced course that you have taken in Physics?

Circle ONE letter, A, B, or C.

I never studied Physics	А
<country specific=""></country>	В
<country specific=""></country>	С

27. What is the most advanced course that you have taken in Chemistry?

Circle ONE letter, A, B, or C.

I never studied Chemistry	А
<country specific=""></country>	В
<country specific=""></country>	С

28. What is the most advanced course that you have taken in Biology?

Circle ONE letter, A, B, or C.

I never studied Biology	А
<country specific=""></country>	В
<country specific=""></country>	С

29. What is the most advanced course that you have taken in <Earth Science/ Geography>?

Circle ONE letter, A, B, or C.

I never studied <earth geography="" science=""></earth>	А
<country specific=""></country>	В
<country specific=""></country>	С

30a. Are you currently taking a mathematics course?

Circle either A or B.

Yes	А
No	В

30b. If so, how many mathematics <classes/periods> do you usually have each week?

Write in the number of periods.

30c. How many minutes are there in each mathematics <class/period>?

Write in the number of minutes.

Complete items 31 and 32 with respect to the mathematics course you are currently taking. If you are not currently taking a mathematics course, complete these items with respect to the most recent mathematics course you have taken.

31. In your mathematics lessons, how often are you asked to do the following?

Circle ONE letter, A, B, C, or D, for each line.

		never or almost never	some lessons	most lessons	every lesson
a)	Explain the reasoning behind an idea	. A	В	С	D
b)	Represent and analyze relationships using tables, charts, or graphs.	. A	В	С	D
c)	Work on problems for which there is no immediately obvious method of solution	. A	В	С	D
d)	Write equations to represent relationships	. A	В	С	D
e)	Solve equations.	. A	В	С	D
f)	Practice computational skills.	. A	В	С	D
g)	Apply models to data.	. A	В	С	D
h)	Memorize rules and procedures.	. A	В	С	D
i)	Apply mathematics to everyday problems	. A	В	С	D
j)	Copy notes from the <board>.</board>	. A	В	С	D
k)	Use computers to solve exercises or problems	. A	В	С	D
1)	Watch the teacher demonstrate how do do mathematical problems or procedures.	. A	В	С	D
m)	Begin your homework before the class ends	. A	В	С	D

NRC Note: For Questions 32a—32e: Insert the titles of the five most widely used mathematics textbooks. If possible, list those used in the TIMSS curriculum analysis.

33. How often is mathematics homework assigned to you?

Circle one letter, A, B, C, D or E.

never A

34. Are you currently taking any of the following science courses?

Circle A or B for each line.

Y	es	No
a) Physics	А	В
b) Chemistry	А	В
c) Biology	А	В
d) Earth Science	А	В
e) Other Science Course	А	В

Complete items 36 and 37 with respect to the physics course you are currently taking. If you are not currently taking a

36. In your Physics (or science) lessons, how often are you asked to do the following?

	Circle	ONE letter, A, B, C, or D, for each line.			
		never or almost never	some lessons	most lessons	every lesson
a)	Explain the reasoning behind an idea.	. A	В	С	D
b)	Represent and analyze relationships using tables, charts, or graphs.	. A	В	С	D
c)	Work on problems for which there is no immediately obvious method of solution	. A	В	С	D
d)	Write explanations about what was observed				

NRC Note: For Questions 37a—37e: Insert the titles of the five most widely used science textbooks. If possible, list those used in the TIMSS curriculum analysis.

37. Do you use a textbook in your physics (or science) class?

Circle either A or B.

YES	А
NO	В

Circle A or B for each line.

If yes, do you use the following textbooks?				
		Yes	No	
a)	<country specific="" text=""></country>	А	В	
b)	<country specific="" text=""></country>	А	В	
c)	<country specific="" text=""></country>	А	В	
d)	<country specific="" text=""></country>	А	В	
e)	<country specific="" text=""></country>	А	В	

38. How often is Physics (or science) homework assigned to you?

Circle ONE letter, A, B, C, D, or E.

never	А
less than once a week	В
once or twice a week	С
3 or 4 times a week	D
every day	E

NRC Note: Questions 39 and 40 are optional.

39. Are you repeating the <grade level> in which you are currently enrolled?

Circle either A or B.

YES	А
NO	В

40. Have you ever completed any other final-year <tracks/programs of study>?

Circle either A or B.

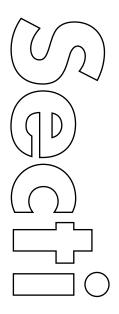
YES	А
NO	В

If yes, please specify: _____

STOP

There are no more questions on this booklet

If you have finished answering this booklet before the time is over then you may go back and review your answers. Thank you for taking the time to answer these questions carefully.





2. Which of the following grade levels are found in your school?

<List only country-specific grades and their appropriate designations.>

		Check one each line.	e box in
		Yes	No
a)	<pre-kindergarten></pre-kindergarten>	•	
b)	<kindergarten></kindergarten>		

3. How many of the following are on the staff of your school?

For each type of position listed, provide the number of full-time equivalents (FTEs) present in your school. For example, one full-time (100% time) teacher represents 1 FTE; one part-time (50% time) teacher represents .5 FTE. A staff member who teaches 50% time and functions as an assistant principal for the remaining 50% represents .5 FTE teacher and .5 FTE assistant principal. Write in 0 (zero) if there are no such positions in your school. If this information is not readily available, please make the best estimate possible.

		Number of FTEs
a)	Principals	
b)	Assistant principals	
c)	Department heads	
d)	<classroom teachers=""></classroom>	
e)	Teacher aides	

4a. How many individual full-time teachers are there in your school?

Write in a **number**. Write 0 (zero) if none

4b. How many individual part-time teachers are there in your school?

Write in a **number**. If this information is not readily available, please make the best estimate possible.

5. What percentage of the teachers have been at your school for 5 or more years?

Please indicate a **percentage**. Write 0 (zero) if none. If this information is not readily available, please make the best estimate possible.

%

6. How many of the teachers in your school teach <the most advanced mathematics>?

Write a **number**. Write 0 (zero) if none

7. What percentage of <the most advanced mathematics> teachers are assigned... Please indicate a percentage. Write 0 (zero) if none. all of their teaching load in mathematics % a) at least half but not all of their teaching load in mathematics b) % c) less than half of their teaching load in mathematics % 8. How many of the teachers in your school teach <the most advanced Physics>? Write a **number**. Write 0 (zero) if none 9. What percentage of <the most advanced Physics> teachers are assigned... all of their teaching load in Physics a) % % at least half but not all of their teaching load in Physics b)

c) less than half of their teaching load in Physics%

10. What percentage of <TARGET GRADE> mathematics teachers have university level certification in mathematics?

Please indicate a percentage. Write 0 (zero) if none.

%

11. What percentage of <TARGET GRADE> science teachers have university level certification in a science subject?

Please indicate a percentage. Write 0 (zero) if none.

12. In your opinion, is your school's capacity to provide instruction affected by a shortage or inadequacy of any of the following?

Check one

14. With regard to your school, who has primary responsibility for each of the following activities?

		not a school responsibility	<school's governing board></school's 	< principal	departme head>	ent teachers
a)	Hiring teachers					
b)	Establishing disciplinary policies					
c)	Establishing student grading policies					
d)	Formulating the school budget					
e)	Purchasing supplies					
f)	Placing students in classes					
g)	Assigning teachers to classes					
h)	Determining which textbooks are used					

Check one box in each line.

15. How much influence do each of the following have in determining the curriculum that is taught in your school?

Check one

18. How important are each of the following factors in deciding which <PROGRAM/TRACK> <TARGET-GRADE> students follow?

		Check one box in each line.				
		not important		moderately important	very important	not applicable
a)	academic performance					
b)	performance on a standardized test					
c)	performance on an entrance examination					
d)	performance on an oral examination					
e)	teacher recommendations					
f)	parental wishes					
g)	the student's own wishes					
h)	curricular requirements					

19. The students in your school:

Write in the answer for each of the following. Write 0 (zero) if there are none.

		boys	girls
a)	What is the total school enrollment (number of students)?		
b)	On a typical school day, what percentage of students are absent from school for any reason?		%
c)	About what percentage of students who begin the year in your school also finish the year in your school?		%
d)	About what percentage of the students in your school transfer into your school after the beginning of the		
	school year?		%

- NRC NOTE: There are 3 different approaches to complete item 20 with countryspecific information. The approach you choose is dependent upon your system (i.e., whether or not tracks exist) and the type of sampling plan (i.e., special case in which one type of track is defined as a sampling strata). These three approaches are:
 - 1) If your system has no tracks, list here the mathematics and science courses available to different groups of students including those that define the specialist groups for Population 3.
 - 2) If your schools contain different tracks, list here the major tracks. The tracks which you list must include those which define the specialist groups in mathematics and physics for Population 3 in your system.
 - 3) In the special case in which one vocational track has been defined as a sampling strata and schools are then randomly selected, different versions of the School Questionnaire may be prepared for each of the sampled tracks/strata. List here the <course offerings> appropriate for the specific sampled track/strata.

See Accompanying Notes for further detail.

20.	Which of the following <programs course<="" th="" tracks=""></programs>
	combinations> are available to <target grade=""> students in</target>
	your school?

Check one box in each line.

		Yes	No
a)	<program track=""> #1</program>	.□	
b)	<program track=""> #2</program>	.□	
c)	<program track="">#3</program>	.□	
d)	<program track="">#4</program>	.□	
e)	<program track=""> #5</program>	.□	
f)	<program track=""> #6</program>	.□	

21. In order to <graduate/finish school> students are required to ...

If the graduation requirement is the same for <TARGET GRADE> students in every <PROGRAM/TRACK> at your school, check the box to the right and respond only to questions under the column for <PROGRAM/TRACK> #1.....

column.			Check as many as apply in each				
	column.				<progi< td=""><td>RAM/TR</td><td>ACK></td></progi<>	RAM/TR	ACK>
		#1	#2	#3	#4	#5	#6
a)	pass a comprehensive (multi-subject)						
	examination						
b)	pass an examination in mathematics						
c)	pass an examination in science						
d)	maintain a certain standard of						
	performance (e.g., grade point average)						
e)	accumulate a certain amount of						
	credit/course work						
f)	attend a specified number of years						
g)	reach a certain age						
h)	pass an oral examination						

THANK YOU for your thought, time, and effort in answering these questions

CALCULATOR USE SURVEY

- 1. Did you use a calculator in answering any of the questions in this booklet?
 - A. YES
 - B. NO

If you did not use a calculator, then you have finished this survey. Thank you. If you used a calculator, please answer each of the following questions.

- **2.** The calculator I used was...
 - A. Simple basic functions only $(+, -, \times, \div, \% \text{ or } \sqrt{})$, without functions like log, sin, cos.
 - B. Scientific basic functions $(+, -, \times, \div, \% \text{ or } \sqrt{})$ and also functions like log, sin, cos.
 - C. Programmable scientific, also able to store and run short programs
 - D. Graphic scientific or programmable, also able to display some graphs
- 3. In doing the questions I estimate that I used the calculator
 - A. very little (for fewer than 5 questions).
 - B. somewhat (for between 5 and 10 questions).
 - C. quite a lot (for more than 10 questions).
- 4. The brand name and model of the calculator I used is:

Thank you for taking the time to answer these questions carefully.